

Message Text

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PAGE 01 BUCAR 03051 161312Z

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AEC GERMANTOWN FOR FRIEDMAN

SECSTATE FOR SCI GANLEY AND EUR/EE - CHRISTENSEN

EO 11652: GDS

TAGS: OSCI, TECH, ETRD, RO

SUBJECT: NUCLEAR ENERGY: ROMANIAN INTEREST IN WESTINGHOUSE ICE

CONDENSOR FOR PRESSURIZED WATER REACTOR (PWR)

REF: A) BUCHAREST 2941; B) STATE 151295

1. TECHNICAL DOCUMENTATION REQUESTED BY ROMANIANS IN PARA 3

REFTEL A AS FOLLOWS:

A. ACCEPTANCE CRITERIA FOR THE EMERGENCY CORE COOLING SYSTEM,
PUBLISHED IN 1973.

B. USAEC MODIFICATIONS OF THE ABOVE CRITERIA FOR THE ICE
CONDENSOR CONTAINMENT ENVELOPE.

C. ANALYTICAL METHODOLOGY DEVELOPED BY USAEC WHICH IS USED
TO ANALYZE CONDENSOR BEHAVIOR DURING A LOSS-OF-COLLANT ACCIDENT.

D. FINAL SAFETY REPORT (CHAPTER REFERRING TO ICE CONDENSOR
CONTAINMENT ENVELOPE FOR THE D.C. COOK NUCLEAR POWER PLANT).

E. SAFETY EVALUATION BY THE DIRECTORATE OF LICENSING -USAEC
OF THE D.C. COOK NUCLEAR POWER PLANT - SEPTEMBER 1973, AND
SUPPLEMENT NO. 1 TO THE SAFETY EVALUATION BY D.R.L.-USAEC,
OCTOBER 1973.

OTHER DOCUMENTATION CONSIDERED USEFUL FOR EVALUATION OF THE
ICE CONDENSOR CONTAINMENT CONCEPT.

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PAGE 02 BUCAR 03051 161312Z

2. QUESTIONS OF SAFETY ASPECTS WHICH ROMANIANS WISH TO DISCUSS WITH AEC DURING MEETING REQUESTED PARA 2 REFTEL A AS FOLLOWS:
- A. PROBABILITIES THAT, IN THE EVENT OF A LOSS-OF-COOLANT ACCIDENT, THE ICE CONDENSOR SYSTEM WOULD NOT OPERATE AT FULL CAPACITY UNDER DECLINING PRESSURE (DEGREE OF RELIABILITY ESTIMATED FOR CORRECT OPERATION OF THE CONDENSOR ACCESS DOOR) AND HOW SUCH A SITUATION IS TAKEN INTO ACCOUNT IN SAFETY EVALUATIONS.
 - B. CAPABILITY OF THE ICE CONDENSOR CONTAINMENT CONCEPT TO MEET CONDITIONS OF POSTULATED ACCIDENTS.
 - C. INFLUENCE OF THE PRESENCE OF THE ICE CONDENSOR ON THE DISCHARGE PROCESS DURING A LOSS-OF-COOLANT ACCIDENT; ADDITIONAL REQUIREMENTS IMPOSED ON THE EMERGENCY CORE COOLING SYSTEM BY THE PRESENCE OF THE ICE CONDENSOR.
 - D. EFFICIENCY OF ICE CONDENSOR IN RETAINING RADIOACTIVE IODINE AND TO WHAT EXTENT IT IS TAKEN INTO ACCOUNT IN CALCULATING ACTION FOR (CONTROLLED?) RELEASE OUTSIDE THE CONTAINMENT ENVELOPE.
 - E. TO WHAT EXTENT THE ICE CONDENSOR, AS A SYSTEM OF ATTENUATING PRESSURE, IS TAKEN INTO ACCOUNT WHEN REDUCING CONTAINMENT LEAKAGE RATE (TO DETERMINE EXCLUSION ZONE AND SURROUNDING AREA WITH REDUCED POPULATION) COMPARED TO FULL PRESSURE CONTAINMENT.
 - F. SPECIFICS REGARDING ISSUANCE OF OPERATING LICENSES FOR NUCLEAR POWER PLANTS EQUIPPED WITH ICE CONDENSOR CONTAINMENT SYSTEMS.
 - G. OPERATING RESTRICTIONS ON DESIGNED OUTPUT LEVELS OF NUCLEAR POWER PLANTS AS A RESULT OF THE REDUCED ICE SUPPLY IN THE CONDENSOR AFTER ROUTINE ACCIDENTS.

3. WORDING OF ITEMS UNDER 1 AND 2 ABOVE DIFFERS SUPERFICIALLY FROM MATERIALS POUCHED TO FRIEDMAN WITH ACCOMPANYING LETTER FROM SCIATT ON JULY 11. TEXT WAS EDITED FOR CABLE PURPOSES.
BARNES

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